

ABSTRACT OF THE DISCLOSURE

[0037] An antenna exhibiting improved radio frequency transmission and reception capabilities. The antenna does not make use of a solid support tube or solid support rods used by previous antennas to support a sub-reflector or other device above a main reflector of the antenna. Instead, the antenna employs the use of a low dielectric constant, perforated, support tube to support the sub-reflector, patch antenna, or other form of antenna element above the main reflector. The perforated support tube permits radio frequency signals to pass through the tube, thus decreasing signal degradation experienced due to reflection of the signal off the solid support tube or off the solid support rods.